

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/050811

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01F41/14 H01F10/32 H01F13/00 G11B5/39 H01L43/12
G01R33/09

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01F G11B H01L G01R G11C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 974 657 A (GILL HARDAYAL SINGH ET AL) 2 November 1999 (1999-11-02) abstract	1-4,6-8, 10
Y	column 3, line 66 - column 4, line 13 column 11, lines 7-50; figure 26	11,12,14
X	US 5 561 896 A (VOEGELI OTTO ET AL) 8 October 1996 (1996-10-08) abstract column 3, lines 51-60 column 7, lines 2-11,35-58; figure 4 column 9, lines 34-48 ----- -/--	1-7,10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- 'A' document defining the general state of the art which is not considered to be of particular relevance
- 'E' earlier document but published on or after the International filing date
- 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- 'O' document referring to an oral disclosure, use, exhibition or other means
- 'P' document published prior to the International filing date but later than the priority date claimed

- 'T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- '&' document member of the same patent family

Date of the actual completion of the International search

18 October 2004

Date of mailing of the International search report

02/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Reder, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/050811

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/02006 A (BERG HUGO VAN DEN ; MATTHEIS ROLAND (DE); SIEMENS AG (DE)) 13 January 2000 (2000-01-13) cited in the application page 11, lines 9-33; figures 1,2 page 12, line 27 - page 13, line 19; figure 7	11,12
Y	WO 00/79298 A (KUIPER ANTONIUS E T ; SOMERS GERARDUS H J (NL); ZON JOANNES B A D VAN) 28 December 2000 (2000-12-28) cited in the application page 6, line 33 - page 7, line 33 page 12, lines 12-17 page 14, line 32 - page 16, line 26; figures 1,2	11,12,14
A	US 2001/028541 A1 (GILL HARDAYAL SINGH) 11 October 2001 (2001-10-11) paragraphs '0014!, '0054!; figures 12,19	1,2,6-8
A	US 6 118 622 A (GILL HARDAYAL SINGH) 12 September 2000 (2000-09-12) column 6, lines 29-53; figure 1 column 8, line 57 - column 9, line 10 column 9, lines 18-42	1,2,6-8
A	US 2002/006017 A1 (ADELERHOF DERK JAN) 17 January 2002 (2002-01-17) paragraphs '0018! - '0022!, '0046!	1,6-8, 11,12

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050811

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5974657	A	02-11-1999	NONE	
US 5561896	A	08-10-1996	US 5479308 A AU 8127294 A WO 9514298 A1	26-12-1995 06-06-1995 26-05-1995
WO 0002006	A	13-01-2000	DE 19830344 A1 WO 0002006 A2 EP 1093587 A2 JP 2002519873 T US 2001020847 A1	20-01-2000 13-01-2000 25-04-2001 02-07-2002 13-09-2001
WO 0079298	A	28-12-2000	WO 0079297 A1 WO 0079298 A2 EP 1141737 A2 EP 1105743 A1 JP 2003502674 T JP 2003502876 T US 6501678 B1 US 6465053 B1	28-12-2000 28-12-2000 10-10-2001 13-06-2001 21-01-2003 21-01-2003 31-12-2002 15-10-2002
US 2001028541	A1	11-10-2001	US 6292335 B1	18-09-2001
US 6118622	A	12-09-2000	US 6522134 B1 US 6358332 B1	18-02-2003 19-03-2002
US 2002006017	A1	17-01-2002	CN 1388901 T WO 0206845 A1 EP 1232400 A1 JP 2004504713 T	01-01-2003 24-01-2002 21-08-2002 12-02-2004